

## How to update Komikan bootloader and firmware image

For Windows:

1. Download tftp server application for windows:  
[http://tftpd32.jounin.net/tftpd32\\_download.html](http://tftpd32.jounin.net/tftpd32_download.html)
2. Add static IP address on PC Ethernet port. Recommended IP address 192.168.1.254.  
**NOTE** could be any IP address from 192.168.1.x pool except 192.168.1.6 (This is device bootloader IP)
3. Boot up device, and hold **ESC** to enter bootloader via terminal.

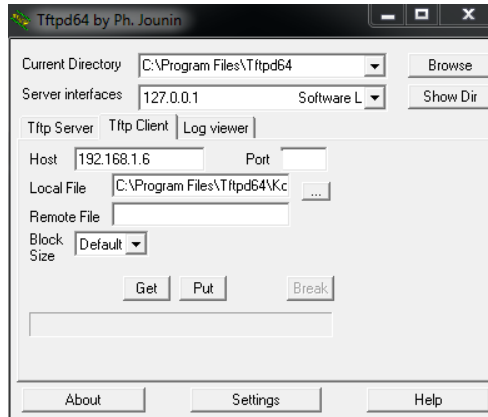
```
---Realtek RTL8197F boot code at 2019.06.04-07:21+0000 v3.4.11B.9 (999MHz)
system image found at 0xb0080000
User Press ESC Key

---Ethernet init Okay!
<RealTek>
nknown command !
<RealTek>
<RealTek>
<RealTek>
```

4. Connect Komikan via Ethernet to PC
5. Open tftp application, and go to Tftp Client. Host address is 192.168.1.6. Choose bootloader first.



6. Press **put** tftp application and bootloader will be updated automatically

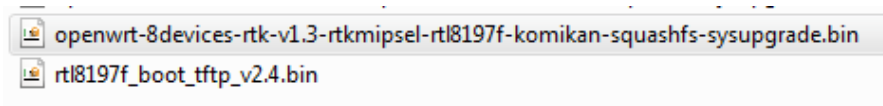


```

<RealTek>
<RealTek>
<RealTek>
**TFTP Client Upload, File Name: rtl8197f_boot_tftp_v2.4.bin
/
**TFTP Client Upload File Size = 0000FFC6 Bytes at A0500000
Success!
<RealTek>
Upgrading: Boot code
checksum Ok !
burn Addr =0x00000000! srcAddr=0xa0500010 len =0x0000ffb6
Flash Write Succeeded!
<RealTek>
reboot.....
Booting...
=====
RTLboot v2.4 (RTL8197F)
http://www.8devices.com/
=====

```

7. Enter bootloader again, and now upload firmware. Firmware will be upgraded automatically



```

=====
RTLboot v2.4 (RTL8197F)
http://www.8devices.com/
=====
init ram
00000202 M init ddr ok
DRAM Type: DDR2
      DRAM Frequency: 533MHz
      DRAM Size: 128MB
JEDEC id EF4019, EXT id 0x0000
found w25q26
flash vendor: Winbond
w25q26, size=32MB, erasesize=64KB, max_speed_hz=41000000Hz
auto_mode=0 addr_width=4 erase_opcode=0x000000d8
**CPU Wake-up interrupt happen! GISR=89000004
Reboot Result from Watchdog Timeout!

---Realtek RTL8197F boot code at 2019.06.04-07:21+0000 v3.4.11B.9 (999MHz)
system image found at 0xb0080000
User Press ESC Key

---Ethernet init Okay!
<RealTek>
<RealTek>
<RealTek>
**TFTP Client Upload, File Name: openwrt-8devices-rtk-v1.3-rtkmipsel-rtl8197f-komikan-squashfs-sysupgrade.bin
/
**TFTP Client Upload File Size = 00600004 Bytes at A0500000
Success!
<RealTek>
Upgrading: Linux kernel
checksum Ok !
it's special wrt image need add 4 byte to burnlen=006d0000!
burn Addr =0x00000000! srcAddr=0xa0500000 len =0x006d0004
Flash Write Succeeded!
<RealTek>
reboot.....
Booting...
=====
RTLboot v2.4 (RTL8197F)
http://www.8devices.com/
=====

```